



Application Date : 4th May, 1938. No. 1789/38.

Under International or Intercolonial Arrangements.
(United States of America, 14th May, 1937.)

Applicant (Assignee) ASSOCIATED ELECTRIC LABORATORIES INC.
Assignor THOMAS FREDERIC CROCKER, of Illinois,
U.S.A.
Application and Complete Specification .. Accepted, 4th May, 1939.
Acceptance Advertised (Sec. 50) .. 18th May, 1939.

Class 05.7.

Drawings (8 sheets) attached.

28 JUL 1939

COMPLETE SPECIFICATION.

"Improvements in telephone toll systems."

We, ASSOCIATED ELECTRIC LABORATORIES, INC., of 1033, West Van Buren Street, Chicago, Illinois, United States of America, a corporation organized under the laws of the State of Delaware, United States of America, Electrical Manufacturers, hereby declare this invention and the manner in which it is to be performed, to be fully described and ascertained in and by the following statement:—

The present invention relates to telephone systems in general, but is more particularly concerned with arrangements for handling toll traffic in such systems. The main object of the invention is the provision of improved switching apparatus and operating methods for toll switchboards to enable toll operators to establish and supervise connections more efficiently.

GENERAL DESCRIPTION.

The accepted practice for handling toll switching at a centralised toll switchboard in an exchange area having several local exchanges, consists in dividing the several

sections of the toll-board into three distinct groups, such as, inward, recording, and delay or point-to-point positions. Incoming calls over toll lines from other exchange areas are answered by operators at the inward position and are either completed directly or transferred to a delay or point-to-point position for completion. Through calls, that is, calls in which the switchboard serves as a tandem switching point, are handled at the inward position in much the same manner as incoming calls. Outgoing calls originating in either local automatic or local manual exchanges and destined to be trunked over toll lines leading to other exchanges, are answered by switching operators at the recording position of the toll board. The recording operators make out toll tickets for the calls and may either complete the calls directly or pass the ticket to a delay or point-to-point position for completion. In handling a delay or point-to-point call, the operator sets up a connection from her position to each of the lines involved. This type of connection is also referred to as a tail-to-tail connection.